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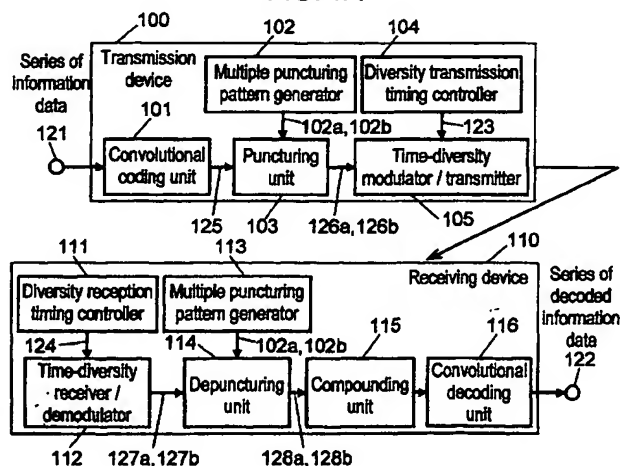
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(54) **Method and system for transmission and reception of punctured convolutionally encoded data**

(57) The present invention improves quality of communication in a transmission and reception system, a transmission and reception device, and a method of transmission and reception, which utilize primarily a combination of punctured-convolution-coding and diversity. Degradation in likelihood of certain data is prevented by adopting the steps of (a) punctured-convolution-coding an identical information data 121 by using a

plurality of different puncturing patterns 102a and 102b, (b) diversity-transmitting each of different series of punctured data obtained in step (a) as diversity branches, (c) depuncturing the series of punctured data individually in a receiving device 110 by using identical puncturing patterns 102a and 102b as used in the transmission side, and (d) compounding and convolution-decoding them thereafter.

FIG. 1A**EP 0 966 124 A3**



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	<p>KALLEL 5: "COMPLEMENTARY PUNCTURED CONVOLUTIONAL (CPC) CODES AND THEIR APPLICATIONS"</p> <p>IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 43, no. 6, 1 June 1995 (1995-06-01), pages 2005-2009, XP000510831</p> <p>ISSN: 0090-6778</p> <p>* abstract *</p> <p>* II. Complementary Punctured Convolutional (CPC) Codes. *</p> <p>* IV. Conclusions. *</p> <p>-----</p>	1-22	<p>H04L1/00</p> <p>H04L1/06</p> <p>H04L1/04</p> <p>H04B7/02</p>
			<p>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</p> <p>H04L</p> <p>H04B</p>
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		20 March 2002	Martínez Martínez, V
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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